

2006 DOE SOLID-STATE LIGHTING WORKSHOP

February 1-3, 2006
Grosvenor Resort
Orlando, Florida

Preliminary Workshop Agenda

Updated 12/16/05

February 1, 2006 – Basic Energy Science Contractor Meeting

7:30 Registration and Coffee

8:00 **Welcome**

Valy Vardeny, University of Utah
Tim Fitzsimmons, DOE
James Brodrick, DOE

8:20 **Keynote Address: Electrophosphorescent Organic Light Emitting Devices, and their Application to Solid-State Lighting**

Stephen Forrest, Princeton University

9:00 **Interfaces of Polymer Electronic Devices**

Antoine Kahn, Princeton University

9:30 **Study of Spin-Dependent Effects in Inorganic/Organic Hybrid Systems**

Jing Shi, University of California, Riverside

10:00 Coffee Break

10:20 **Electronic Processes in Solid State Organic Electronic Materials**

Darryl Smith, Los Alamos National Laboratory

10:50 **Electronics from Nano-Scale Crystals**

Arthur Ramirez, Lucent Technologies

11:20 **Behavior of Charges, Excitons and Plasmons at Organic/Inorganic Interfaces**

Michael McGehee, Stanford University

11:50 **Controlling Macromolecular Structure, Architecture and Functionality in Energy Related Polymeric Materials**

Jean Frechet, University of California and Lawrence Berkeley National Laboratory

12:20 Lunch

Paul Alivisatos, University of California, Berkeley and Lawrence Berkeley National Laboratory

2:00 **Semiconductor Theory**

Alex Zunger, National Renewable Energy Laboratory

2:30 **Theory of Optical and Electronic Properties of Clusters and Nanostructures**

James Chelikowsky, University of Texas

3:00 **Synthesis and Processing of Nanoclusters for Energy Applications**

Jess Wilcoxon, Sandia National Laboratories

3:30 *Coffee Break*

3:50 **Photonic Band Gap Materials**

Costas Soukoulis, Iowa State University, Ames Laboratory

4:20 **Photonic Crystals**

Paul Braun, University of Illinois

4:50 Tom Russell, University of Massachusetts, Amherst

5:30 **Wrap-Up and Day 2 Preview**

Tim Fitzsimmons, DOE

James Brodrick, DOE

5:40 **Adjourn**

6-8:30 **Poster Session and Reception, with hors d'oeuvre stations and cash bar**

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February 2, 2006 – DOE SSL Program Updates and Project Presentations

7:30 *Coffee and Breakfast*

8:00 **Welcome**

David Rodgers, DOE (invited)

8:20 **Keynote Address**

Alan Allan, Intel

8:50 **Program Overview: Update on Program Progress**

James Brodrick, DOE

9:10 **Program Organization: Structure, Procedure, and Procurement Updates**

C. Edward Christy, National Energy Technology Laboratory

9:30 **Industry Perspective**

Todd Graves, Next Generation Lighting Industry Alliance

9:50 **Basic Energy Science Program Update**

Tim Fitzsimmons, DOE

10:10 *Coffee Break*

10:30 **Parallel Reporting Sessions: Brief Presentations on DOE-Funded SSL Projects**

(schedule of reports provided separately)

LED Project Reports

OLED Project Reports

12:30 *Lunch*

International Perspective: SSL R&D Patterns

Mark Huey, Strategic Perspectives

2:00 **Parallel Reporting Sessions: Brief Presentations on DOE-Funded SSL Projects (continued)**

LED Project Reports

OLED Project Reports

3:30 *Coffee Break*

3:50 **Parallel Reporting Sessions: Brief Presentations on DOE-Funded SSL Projects (continued)**

LED Project Reports

OLED Project Reports

5:30 **Adjourn**

6:00 **Reception, with hors d'oeuvre stations and cocktails**

Sponsored in part by the Next Generation Lighting Industry Alliance

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February 3, 2006 – DOE Commercialization Support Activities

7:30 *Coffee and Breakfast*

8:00 **Welcome: Overview of Day 3 Topics**
James Brodrick, DOE

8:10 **DOE SSL Commercialization Support Activities**
Marc Ledbetter, Pacific Northwest National Laboratory

8:40 **Lighting for Tomorrow Design Competition**
Richard Orrison, DOE

9:10 **ENERGY STAR Update**
Richard Karney, DOE

9:40 **NEMA Standards Committee Update**
Makarand Chipalkatti, Osram Sylvania

10:10 *Coffee Break*

10:30 **Lighting Designer Perspective**
Ted Ferreira, City Design Group

11:00 **Wrap-Up**
James Brodrick, DOE